Functional Genetics and Bioinformatics: **Biotechnology**

(2-year Master's program, 120 credits; recommended study plan)

1st Winter Semester

Introduction to Omics & Biotechnology
(KMB/921)
Practicals in Omics & Biotechnology
(KMB/933)
Seminars in Omics & Biotechnology
(KMB/926)
Practical Computing for Biologists
(KMB/925)
Bioinformatics for Biologists
(KMB/613)
The New Statistics for Exp. Biologists
(KMB/929)
Bioethics
(KMB/913)
Masters Thesis Assignment
(KMB/885)
Master's English Examination – TOEFL
(OJZ/930)

1st Summer Semester

Master thesis, Practical part
(KMB/881)
Genetics – Colloquia
(KMB/180)
Cell Structure and Function
(KMB/914)
Essays in Omics & Biotechnology
(KMB/918)

Gene & Protein Engineering
(UCH/020)

Molecular Physiology and Metabolism
(KMB/924)

2nd Winter Semester

Master thesis, Practical part
(KMB/881)

Molecular Biology & Biotechnology of Cyanobacteria
(KMB/928)
Microbial Biotechnology
(KBE/262E)

Industrial Enzymology
(KMB/920)
Bioenergetics
(KEBR/631)

2nd Summer Semester

Master thesis, Practical part
KMB/881
Genetics – Colloquia
(KMB/180)

Plant Biotechnology
(KMB/937)
Animal Biotechnology
(VURH/xxx)

Algal Biotechnology
(KMB/912)
Biotechnological & Mol. Techniques in Crop Management
(KMB/936)

Core courses (common to all): 75 credits
Obligatory courses: 21 credits
Obligatory elective courses: ≥ 9 credits